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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,887	12/13/2004	Earl M. Ortt	0275Y-000583NPC	1601	
27572	7590 04/18/2006		EXAM	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828			SCHEUERMAI	SCHEUERMANN, DAVID W	
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAIL ED: 04/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		T A 1:4:N	1:				
Office Action Summany		Application No.	Applicant(s)				
		10/517,887	ORTT ET AL.				
	Office Action Summary	Examiner	Art Unit				
		David W. Scheuermann	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO THE M - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period veron to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
3tatus 1)⊠	Responsive to communication(s) filed on 18 J	January 2006					
اکا(۱ (2a		is action is non-final.					
	<i>,</i> —		accoution as to the morits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) 7 and 9-11 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>7 and 9-11</u> is/are rejected.						
7)	Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
	The specification is objected to by the Examine	r					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[☐ All b)						
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 1/18/2006 have been fully considered but they are not persuasive in view of the new rejection. Furthermore Meyer et al., US 3355611 suggests a plunge in top surface as the grinding wheel or other cutting tool would traverse in a direction from surface 16 to surface 18, (i.e., a plunge). Furthermore, Meyer et al., US 3355611 teaches a predetermined distance as noted in column 2, lines 23-25.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 9, 10, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meyer et al., US 3355611 in view of Nakazawa, JP 06155268. Meyer et al., US 3355611 discloses:

A method of manufacturing a brush 10 for an electric motor, comprising the steps of:

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Providing a brush blank (inherent) defining an axis there though and having a top surface 16;

[Providing a grinding wheel or cutting wheel;

Positioning said grinding wheel or cutting wheel at a desired angle with respect to said axis];

determining a depth (see column 2, lines 23-25) of cut of said grinding wheel or cutting wheel;

plunging (inherent due to the undercut portion tool enters from top surface 16) said grinding wheel or cutting wheel into said top surface; and forming an arcuate spring retention plunge in said top surface (note figure 2) in the plane transverse to said axis to have a slope relative to said axis.

Meyer et al., US 3355611 does not expressly disclose, the bracketed material. Nakazawa, JP 06155268 discloses use of a grindstone or wheel, for the purpose of machining a brush as shown in figure 6. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use a grinding wheel to machine the brush of Meyer et al., US 3355611. Furthermore use of this method would involve positioning the cutting tool 7 in proper alignment with the work piece 1 as shown in figure 1- 5 of Nakazawa, JP 06155268. One of ordinary skill in the art would have been motivated to do this remove material in a precise yet cost effective manner.

Re claim 9, it is noted that the brush of figure 2 of Meyer et al., US 3355611 has many axis. Relative to the perpendicular axis of surface 16, the grinding or cutting tool which forms surface 12 would cut at an angle thereto. Additionally, the angle could be zero or ninety degrees.

Re claims 10 and 11, note that clip 22 serves as a accommodating a spring finger as denoted in cloumn2 lines 47-49. Furthermore this clip is retained secure in both the lateral and transverse direction to prevent it from being easily separated from the brush. The retaining would be effected in part by the angled curved surface formed by the plunge grind and the interference formed by the clip mounted therein.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David W. Scheuermann whose telephone number is 571-272-2035. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached at (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DS

dws April 9, 2006

> DARREY SCHUBERG SUPELLEGAY PATENT EXAMINE TECHNOLOGY CENTER 2800 /

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